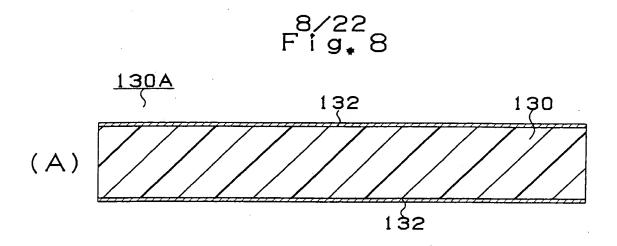
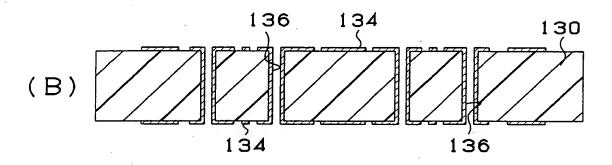
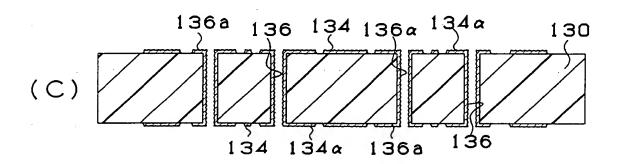


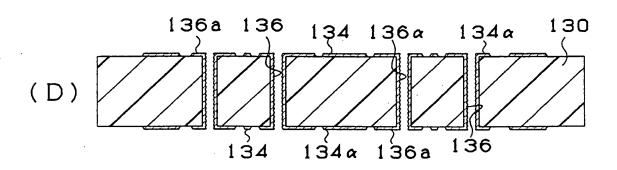
7/22 Fig. 7

	Embodiment	Comparison Example	
Electrical connection characteristic	ОК	NG	
Separation	NO	YES	
Expansion	NO	YES	

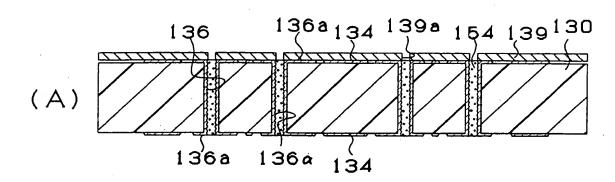


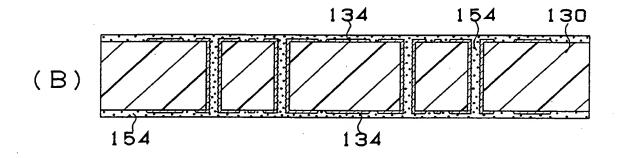


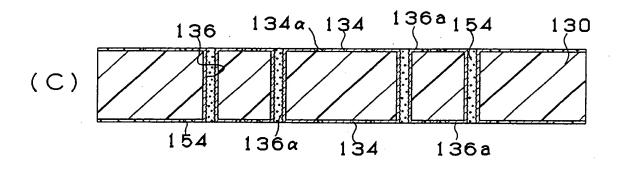


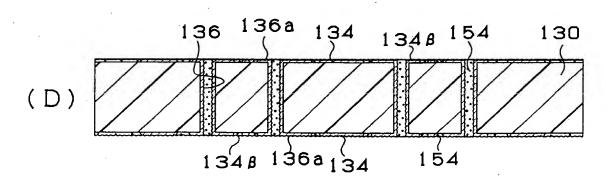


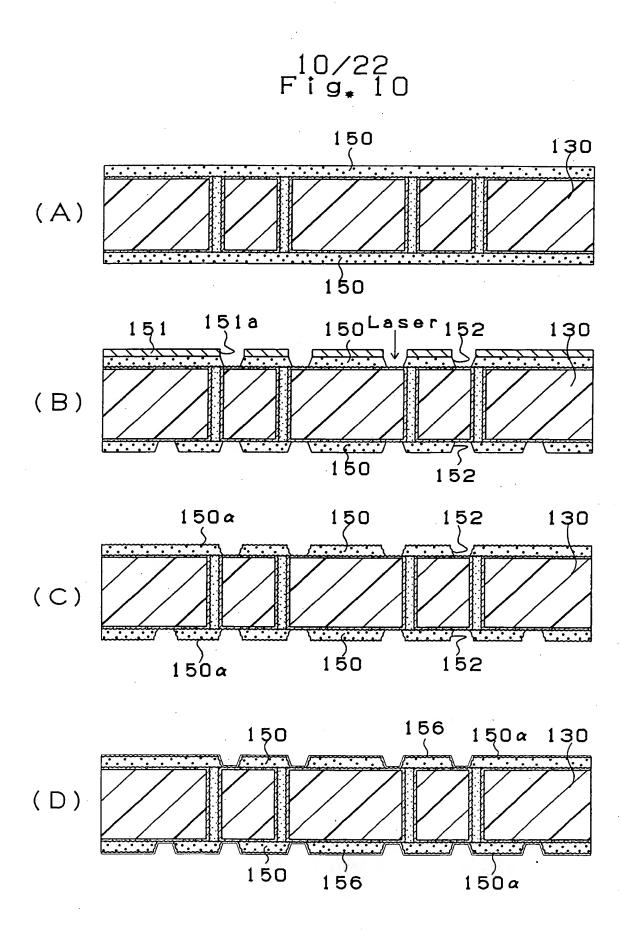
9/22 Fig_{*} 9

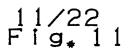


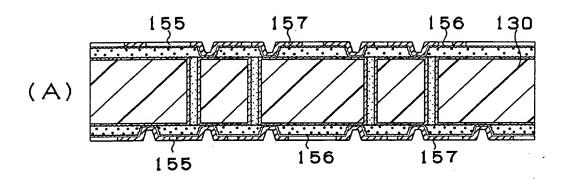


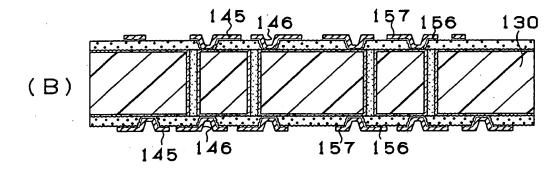


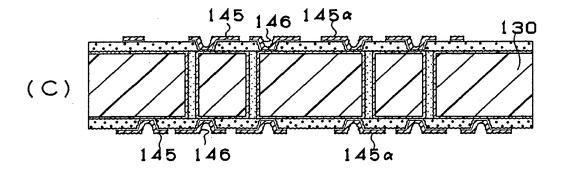


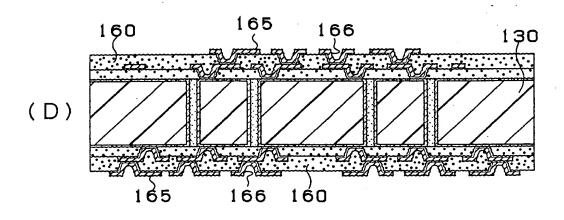




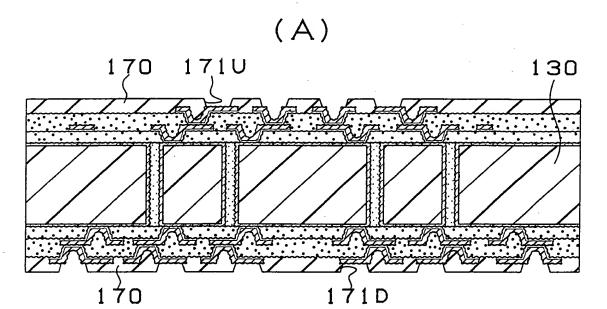


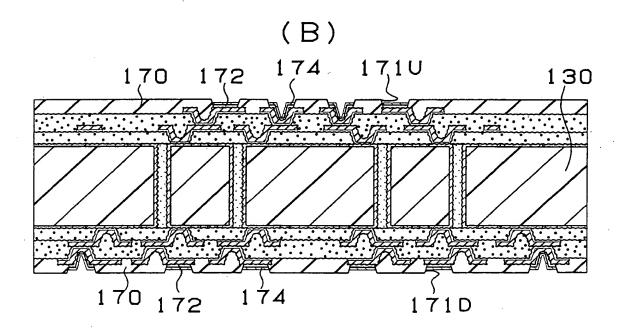


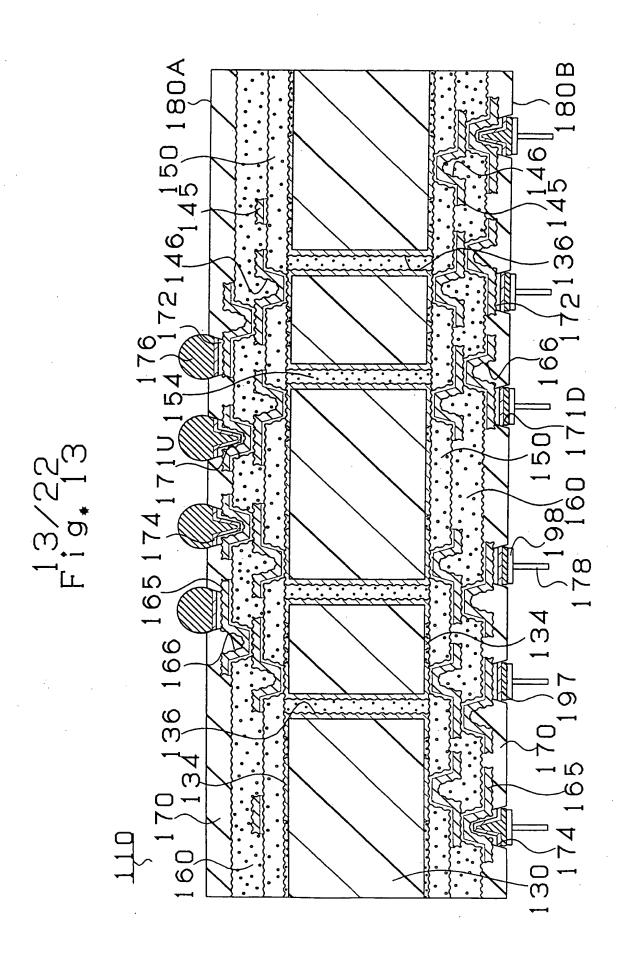


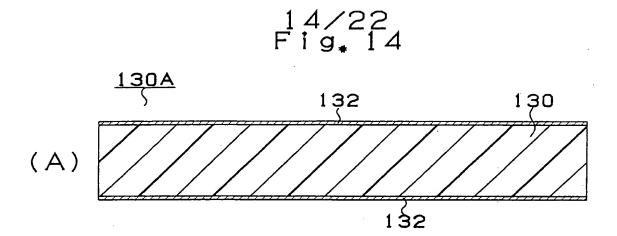


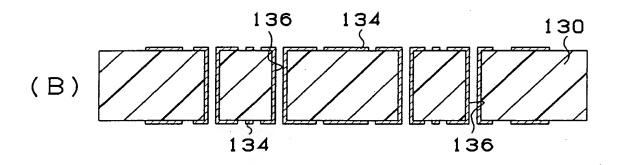
12/22 Fig_{*} 12

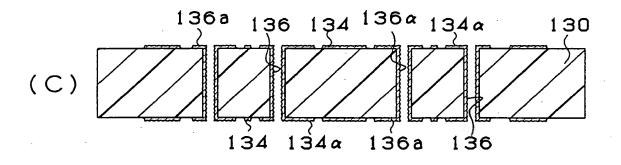


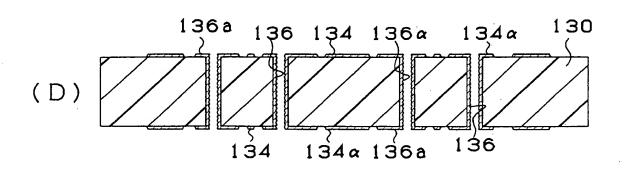




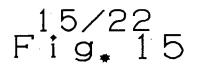


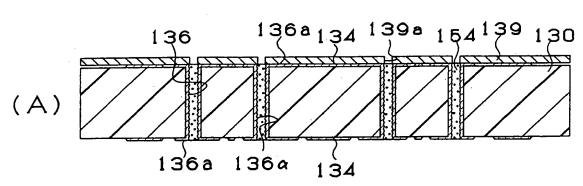


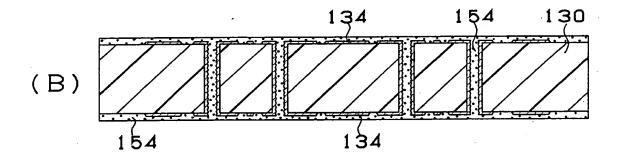


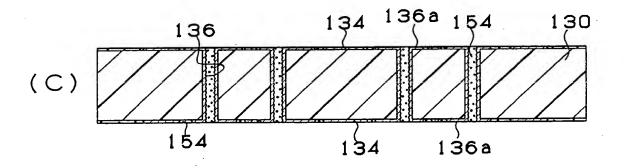


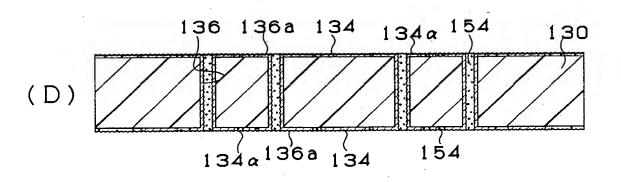
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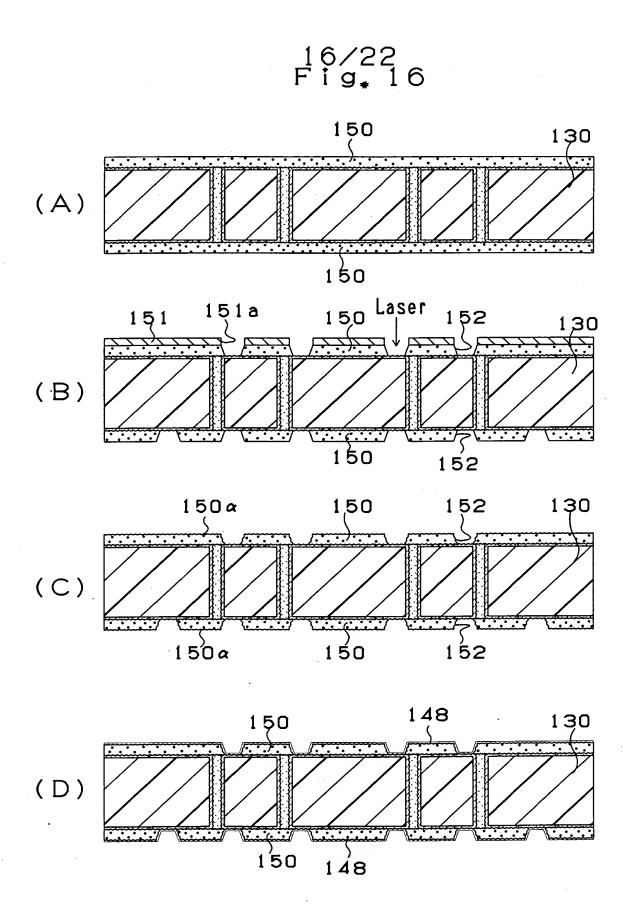


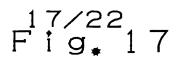


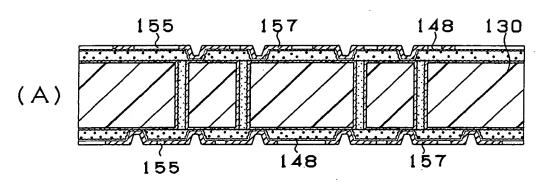


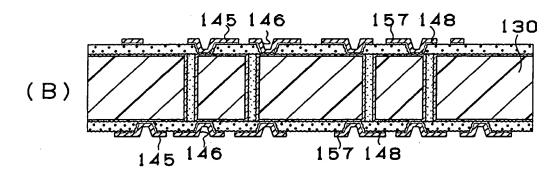


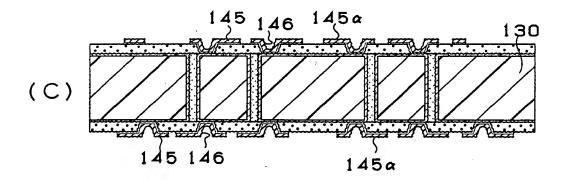


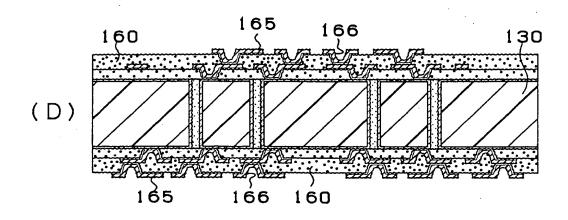




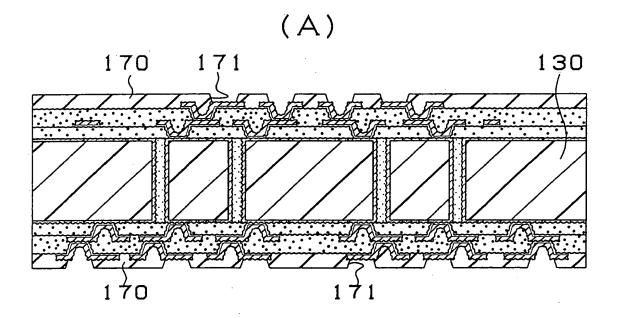


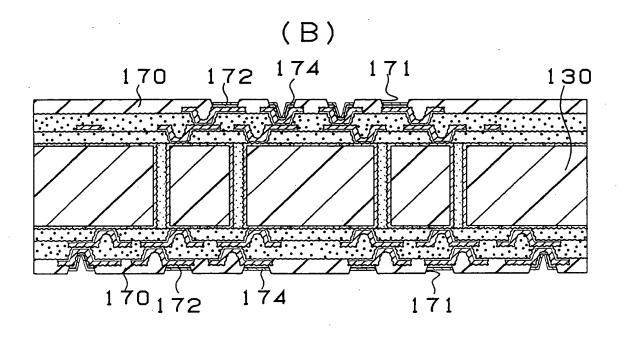




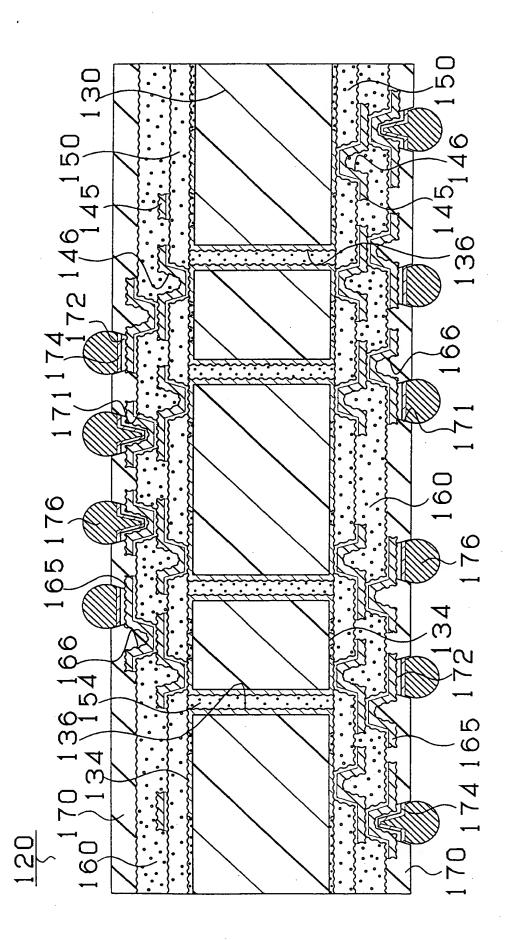


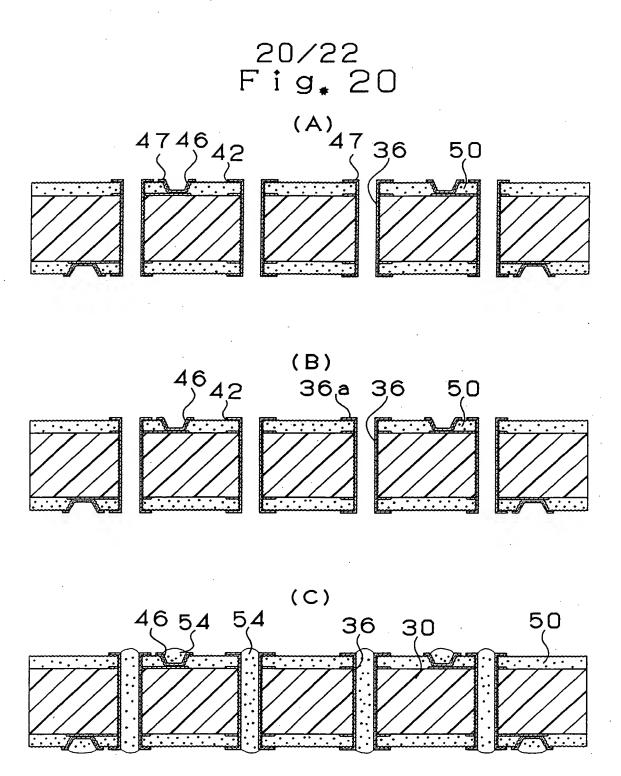
18/22 Fig. 18





19/22 Fig* 19





21/22 Fig. 21

	roughing method	polishing of through hole land surface	flow of resin filler out of through holes
Comparison example 5	blackening- reduction process	No	Yes
Comparison example 6	etching	No	Yes
Comparison example 7	electroless plating	No	Yes
Second Embodiment	blackening- reduction process	Yes	No
First Modification of Second Embodiment	etching	Yes	No ·
Second Modification of Second Embodiment	electroless plating	yes	No

